

New claim program, Gerfast 10/706,416

Claims

April 10 2006

1. (cancelled) Butt-joining method comprising:

In two abutting metal strips punching a substantially rectangular slot into both abutments, inserting into said two slots a deformable slug, clinching said slug into said slots, thereby securely joining said strips.

2. (cancelled) Butt-joining method as defined in claim 1 wherein said slots in both said abutments are keystone shaped instead of rectangular.

3. (cancelled) Butt-joining method as defined in claim 1 wherein said slots in both said abutments have two rounded edges produced by both a punch and a die.

4. (cancelled) Butt-joining method as defined in claim 1 wherein said strips are of other material than metal.

5. (cancelled) Butt-joining method as defined in claim 1 wherein a plurality of slots are used.

6. (cancelled) (Replaced by claim 15) Butt-joining method as defined in claim 2 wherein said keystone shaped slugs slots are also having said rounded corners.

7. (previously amended) Butt-joining clinch method comprising:

In two abutting metal strips punching a substantially rectangular slot into both abutments, wherein said slots have two rounded edges produced by both a punch and a die, using one knock-out-slug from said punching, re-inserting said slug into the center of both said abutments, clinching said slug into said slots thereby securely butt-joining said strips.

8. (cancelled) Butt-joining clinch method as defined in claim 7 wherein said slots in both said abutments is keystone shaped instead of rectangular.

9. (cancelled) Butt-joining clinch method as defined in claim 7 wherein said slots in both said abutments have two rounded edges produced by both a punch and a die.

10. (previously amended) Butt-joining clinch method as defined in claim 7 wherein said strips are of other material than metal.